PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: LEE, Young-Pil				AR 28 ECEIV
The Cheonghwa Bldg. 1571-18 Seocho-dong, Seocho-gu Seoul 137-874, Republic of Korea		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)		'Y
<u> </u>		Date of mailing (day/month/year) 2	4 MARCH 2005 (24.03.2005))
Applicant's or agent's file reference		FOR FURTHER AC	TION	
JL-23658-PCT		See paragraph 2 below		
International application No. International filing date		(day/month/year)	Priority date(day/month/year)	
PCT/KR2004/003226	09 DECEMBER 2	2004 (09.12.2004)	09 DECEMBER 2003 (09.12.2003))
1. This opinion contains indications rela	nting to the following item	ma:		
1. This opinion contains indications related Box No. I Basis of the opinion		1115.		
Box No. II Priority				
Box No. IV Lack of unity of	Box No. IV Lack of unity of invention			
	V Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain docume	ents cited			
Box No. VII Certain defects	s in the international app	lication		
Box No. VIII Certain observa	itions on the internationa	l application		
2. FURTHER ACTION If a demand for international prelimin International Preliminary Examining		•	•	

other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the

of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing

3. For further details, see notes to Form PCT/ISA/220.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR

Facsimile No. 82-42-472-7140

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

opinions of this International Searching Authority will not be so considered.

-: -EEE; Suk Ju

Authorized officer

Telephone No. 82-42-481-8149

La Contraction of the



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/003226

DU	ox No. 1 Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	
	a. type of material
	a sequence listing table(s) related to the sequence listing
	table(s) related to the sequence listing
	b. format of material
	in wirtten format in computer readable form
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed. filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that
	in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/003226

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 1-6	YES
	Claims None	NO
Inventive step (IS)	Claims 1-6	YES
	Claims None	NO
Industrial applicability (IA)	Claims 1-6	YES
	Claims None	NO

2. Citations and explanations:

Reference is made to the following documents:

D1: US 4,880,841 A D2: EP 257,787 A1

1. Novelty and Inventive Step.

The present invention relates to a method of preparing an optically pure phenethylamine derivative which is an intermediate useful for preparing tamsulosin or it salts and a method of preparing tamsulosin or its salts using the optically pure phenethylamine derivative.

D1 relates to novel phenethylamine derivatives and the acid addition salts thereof, and more particularly to novel phenethylamine derivatives and the acid addition salts thereof exhibiting a strong a-adrenergic blocking action and useful as an antihypertensive agent.

D2 relates to a new process for producing optically active benzenesulfonamide derivatives which are represented by the general formula(I) and a process for producing formula VI by further reacting optically active benzenesulfonamide derivatives.

The subject matter of the present invention differs from the disclosure of D1-D2 mainly in that the method of preparing an opticically pure compound having formula 1 relates to react (R)-2-(4-methoxy-3-aminosulfonyl-phenyl)-1-methylethylamine or its salts with a-halogenoacetic acid anhydride and a-halogenoacetyl halide in the presence of a base and an acylating agent. And said optically pure compound having formula I further reacts with 2-ethoxyphenol in presence of a base and is reduced. It cannot be considered obvious to a person skilled in the art, with knowledge of the cited documents, to use an optically pure compound and an acylating agent and to reduce for increasing an yield of production and preventing a side reaction.

Therefore, the subject matter of the present claims 1-6 is considered to be novel and to involve an inventive step under PCT Article 33(2) and (3).

2. Industrial Applicability

The subject matter of claims 1-6 is considered to be industrially applicable under PCT Article 33(4).